Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A brake disk for a rail vehicle, the brake disk comprising:

a hub;

at least one friction ring having a plurality of radial grooves and fastened by a clamping bolt to the hub;

a plurality of sliding elements having a shank and being connected to the hub, each of the plurality of sliding elements engaging in one of the radial grooves for anti-rotation locking and centering of the at least one friction ring, and each of the sliding elements extending parallel to an axis of the clamping bolt; and

wherein each radial groove, starting from a through-hole of the friction ring and through which through-hole the clamping bolt passes, is extended outward away from a center longitudinal axis of the hub.

2. (Cancelled

3. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements is arranged in an insertion hole of the hub.

4. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements includes a head which is guided in an associated one of the plurality of radial ~~groove~~grooves.

5. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of radial ~~groove~~ grooves has a width of 10 mm.

6. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements is a straight pin.

7. (Currently Amended) The brake disk as claimed in Claim 1, wherein a head of each of the plurality of sliding ~~element~~ elements has a cross-section of a square.

8. (Currently Amended) The brake disk as claimed in Claim 1, wherein a head of each of the plurality of sliding ~~element~~ elements includes two sides which run parallel to one another and bear against side walls of an associated one of the plurality of radial ~~groove~~grooves.

9. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements includes a polygonal-shaped head and a cylindrical shank integrally formed with the polygonal-shaped head by machining.

10. (Currently Amended) The brake disk as claimed in Claim 1, wherein the plurality of sliding elements are arranged in a symmetrically distributed manner over a circumference of the hub.

11. Currently Amended) The brake disk as claimed in Claim 1, wherein the plurality of sliding elements includes one of 3, 6, 9 and 12 sliding elements ~~are provided~~.

12. (Currently Amended) The brake disk as claimed in Claim 1, wherein the plurality of sliding elements includes at least seven sliding elements ~~are provided~~.

13. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the ~~number of~~plurality of sliding elements ~~corresponds to the number of~~is associated with a corresponding clamping ~~bolts~~bolt.

14. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements is a guide pin.

15. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of radial ~~groove~~grooves, starting from ~~a~~ the through-hole of the at least one friction ring and through which through-hole the clamping bolt passes, is extended inward toward a center longitudinal axis of the hub.

16. (Currently Amended) The brake disk as claimed in Claim 1, wherein each of the plurality of sliding ~~element~~ elements is arranged in an insertion hole of a hub flange of the hub.

17. (Currently Amended) The brake disk as claimed in Claim 1, wherein a head of each of the plurality of sliding ~~element~~ elements has a cross-section of a hexagon.

18. (Currently Amended) The brake disk as claimed in Claim 1, wherein a head of each of the plurality sliding ~~element~~ elements has a cross-section of a polygon.

19. (Previously Presented) The brake disk as claimed in Claim 9, wherein the polygonal-shaped head is produced from polygonal-shaped steel.

20. (New) A brake disk for a rail vehicle, the brake disk comprising:

a hub;

at least one friction ring having a plurality of radial grooves and fastened by a clamping bolt to the hub;

a plurality of sliding elements having a shank and being connected to the hub, each of the plurality of sliding elements engaging in one of the radial grooves for anti-rotation locking and centering of the at least one friction ring, and each of the sliding elements extending parallel to an axis of the clamping bolt;

wherein each of the plurality of sliding elements includes a head which is guided in an associated one of the plurality of radial grooves; and

wherein the head of each of the plurality of sliding elements includes two sides which run parallel to one another and bear against side walls of an associated one of the plurality of radial grooves.